ACKLEY LAKE DAM

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Fact Sheet

PROJECT DESCRIPTION

- ♦ Off-stream storage reservoir fed by the Judith River
- ♦ 10 miles southwest of Hobson in Judith Basin County
- Owned by DNRC & managed by SWPB
- ♦ Operated by Ackley Lake Water Users Association since 1938
- Project consists of:
 - ◆ Earthen Embankment Dam, 51 feet high, 3,514 feet long
 - Unregulated trapezoidal earthen spillway
 - ♦ Corrugated, 48-inch, 390 foot-long metal pipe outlet with slide gate
- Original construction completed in 1938
- ♦ Reservoir stores 5,975 acre-feet at spillway crest
- ♦ 27 water users, irrigates approximately 6,000 acres
- ♦ The dam is a "high hazard" structure, which means that its failure could cause loss of life. Numerous farms and ranches, roads, bridges, and utilities are located in the flood plain.

PROJECT DEFICIENCIES

- ♦ Excessive artesian pressures in the dam foundation, threatening embankment stability.
- Existing drains and outlet conduit are deteriorating and at the end of design life.
- ♦ Excessive seepage.

PROPOSED REHABILITATION

- Replacing the outlet conduit with a new structure of similar design.
- Install new drains and construct toe berm for seepage control
- **♦ Estimated cost: \$1,519,743**
- ♦ Funding sources include an RRGL Grant and Loan, DNRC in-kind contribution, and Water Storage and Hydropower Account revenue.
- ♦ The Water Users will increase contract water charges by approximately \$3.37 per share to service debt on the new \$200,000 loan.

Hearing Date: 1/22/07

DNRC-SWPB

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